S/N Unknown **PATENT** 

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Jiang Ding et al.

Examiner:

Unknown

Serial No.:

Unknown

Group Art Unit:

Unknown

Filed:

Docket:

279.298US2

Herewith

Title:

CARDIAC RHYTHM MANAGEMENT SYSTEM SELECTING BETWEEN

MULTIPLE SAME-CHAMBER ELECTRODES FOR DELIVERING CARDIAC

**THERAPY** 

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 et. seq., the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

Pursuant to 37 C.F.R. §1.98(d), copies of the listed documents are not provided as these references were previously cited by or submitted to the U.S. Patent Office in connection with Applicants' prior U.S. application, Serial No. 09/862,181, filed on May 23, 2001, which is relied upon for an earlier filing date under 35 U.S.C. §120.

Title: CARDIAC RHYTHM MANAGEMENT SYSTEM SELECTING BETWEEN MULTIPLE SAME-CHAMBER ELECTRODES FOR DELIVERING CARDIAC THERAPY

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

JIANG DING ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. Box 2938

Minneapolis, MN 55402

612-373-6951

Date Nov. 12, 2003

Suneel Arora

Reg. No. 42,267

"Express Mail" mailing label number: EV299684958US

Date of Deposit: November 12, 2003

This paper or fee is being deposited on the date indicated above with the United States Postal Service pursuant to 37 CFR 1.10, and is addressed to The Commissioner for Patents, Mail Stop Patent Application, P.O. Box 1450, Alexandria, VA 22313-1450.

Substitute for form 1449A/PTO	Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	<b>Application Number</b>	Unknown	
(Use as many sheets as necessary)	Filing Date	Even Date Herewith	
	First Named Inventor	Ding, Jiang	
	Group Art Unit	Unknown	
	Examiner Name	Khan, Omar	
Sheet 1 of 3	Attorney Docket No: 2	279.298US2	

	US PATENT DOCUMENTS						
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate	
	US- 2002/0082656	06/27/2002	Stahmann, J E., et al.	607	9	12/26/2000	
	US-5,181,511	01/26/1993	Nickolls, P., et al.	128	419PG	10/21/1991	
	US-5,995,870	11/30/1999	Cazeau, S., et al.	607	9	03/06/1998	
	US-6,076,013	06/13/2000	Brennan, E. F., et al.	607	2	06/14/1999	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T²
	WO-99/58191	11/18/1999	Ding, J., et al.	A61N	1/368	

	OTHER	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		ALONSO, C., et al., "ECG Predictive Factors of Positive Response to Multisite	
	l	Biventricular Pacing in Advanced Heart Failure", PACE, 22, NASPE Abstract No.	
		232,(April 1999),p. 758	
		ALONSO, C., et al., "Influence of Left and Right Ventricular Pacing Sites on	
		QRS Characteristics during Biventricular Pacing in Advanced Heart Failure",	
		PACE, 22, NASPE Abstract No. 644,(April 1999),p. 861	
		ALONSO, C., et al., "Intravascular Extraction of Leads Chronically Implanted	
		Into the Cardiac Veins For Permanent Left Ventricular Pacing", PACE, 23,	
		NASPE Abstract No. 35,(April 2000),p. 561	
	•	ALONSO, C., et al., "Long-Term Performances of Transvenous Left Ventricular	
]		Leads: A 5 Years Experience", PACE, 23, NASPE Abstract No. 233,(April	
		2000),p. 611	ļ
		AURICCHIO, A., et al., "Acute Hemodynamic Improvement by Pacing in	
		Patients with Severe Congestive Heart Failure", PACE, 20, (Feb. 1997),pp. 313-324	
		AURICCHIO, A., et al., "Clinical and Objective Improvements in Severe	
		Congestive Heart Failure Patients Using Univentricular or Biventricular Pacing:	
		Preliminary Results of a Randomized Prospective Study", <u>JACC</u> , Abstract No.	ļ
		1015-30,(Feb. 1998),p. 31A	
		AURICCHIO, A., "Effect of Pacing Chamber and Atrioventricular Delay on	
		Acute Systolic Function of Paced Patients With Congestive Heart Failure",	
		<u>Circulation, 99, (1999),2993-3001</u>	
		AURICCHIO, A, "The Pacing Therapies for Congestive Heart Failure (PATH-	]
		CHF) Study: Rationale, Design, and Endpoints of a Prospective Radomized	İ
		Multicenter Study", The American Journal of Cardiology, Vol. 83, No. 5B, (March	
		11, 1999),130D-135D	
		BLANC, JJ., et al., "Evaluation of Different Ventricular Pacing Sites in Patients	

**EXAMINER** 

DATE CONSIDERED

PTO/SB/084(10-01)
Approved for use through 10/31/2002, 0AB 651-0031
US Patent & Trademark Office, U.S. DEPARTMENT OF COMMERCE
on of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number Filing Date First Named Inventor Group Art Unit Examiner Name	Unknown Even Date Herewith Ding, Jiang Unknown Khan, Omar
Sheet 2 of 3	Attorney Docket No: 2	79.298US2

**.** ✓ 4

	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		With Severe Heart Failure", Circulation, 96 (10), (1997),pp. 3273-3277	<u> </u>
		CAZEAU, S., et al., "4-year experience of Biventricular pacing for congestive	
		heart failure", PACE, 21, NASPE Abstract No. 8,(April 1998),p. 791	
		CAZEAU, S., et al., "Acute Electromechanical comparison of biventricular	ŀ
		versus conventional DDD Stimulation in congestive heart failure patients",	
		PACE, 21, NASPE Abstract No. 744,(April 1998),p. 975	
		CAZEAU, S., et al., "Biventricular pacing decreases interventricular but not	
		intraventricular asynchrony in multisite - paced patients for congestive heart	
		failure", PACE, 21, NASPE Abstract No. 9,(April 1998),p. 792	
		CAZEAU, S., et al., "Heart Failure: Acute hemodynamic improvement provided	
		by multisite biventricular pacing", <u>JACC Abstracts</u> , Abstract No. 935-70,(Feb.	
		1997),p. 111A	
		CAZEAU, S., et al., "Overlap between systole and diastole in congestive heart	ļ
		failure patients candidates for multisite biventricular pacing", PACE, 21, NASPE	1
		Abstract No. 743,(April 1998),p. 975	
		DAUBERT, JEAN-CLAUDE, et al., "Clinical Effects of Biventricular Pacing in	
		Patients with Severe Heart Failure and Chronic Atrial Fibrillation: Results from	İ
		the Multisite Stimulation in Cardiomyopathy-MUSTIC Study - Group II",	ł
		Circulation 102 (18 Supplement), Abstract No. 3349,(Oct. 2000),p. II-693	
		DAUBERT, JC., et al., "Clinical Effects of Biventricular Pacing in Patients with	
		Severe Heart Failure and Normal Sinus Rhythm: Results from the Multisite	
		Stimulation in Cardimyopathy-MUSTIC - Group I", Circulation, Suppl. II, 102 (18),	
2		Abstract No. 3353,(Oct. 2000),p. II-694	ļ
		DAUBERT, JC., et al., "Clinical Effects of Biventricular Pacing in Patients with	
		Severe Heart Failure and Normal Sinus Rhythm: Results from the Multisite	
		Stimulation in Cardiomyopathy-MUSTIC - Group I", Circulation, Suppl. II, 102	
		(18), Abstract No. 3354,(Oct. 2000),p. II-694	<u> </u>
	-	DAUBERT, C., et al., "Outcome of Patients Chronically Implanted with	
		Biventricular Pacing Systems for Endstage Congestive Heart Failure", PACE, 20,	
		NASPE Abstracts, Part II, Abstract No. 215,(April 1997),p. 1103	
		DAUBERT, J. C., et al., "Permanent Biventricular Pacing by a Transvenous	
		Approach", <u>JACC</u> , Abstract No. 1045-110,(Feb. 1997),p. 431A	
		DAUBERT, L. C., et al., "Permanent Left Ventricular Pacing With Transvenous	
		Leads Inserted Into the Coronary Veins", PACE, 21, (Jan. 1998),p. 239-245	
		DAUBERT, C., et al., "Use of Specifically Designed Coronary Sinus Leads for	
		Permanent Left Ventricular Pacing: Preliminary Experience", PACE, Vol. 20,	
		NASPE Abstracts, Part II, Abstract No. 17,(April 1997),p. 1054	
		DING, J., et al., "Can Intraventricular Electromechanical Synchrony Account for	
		the Increase in LV +dp/dt When Pacing Heart Failure Patients at Left Ventricular	
		Lateral Wall?", Abstracts From the 71st Scientific Sessions, Abstract No.	
		1582,(1998),p. 1-303	

EXAMINER DATE CONSIDERED

PTO/SB/08A(10-01)
Approved for use through 10/31/2002, OMB 651-0031
US Patent & Trademark Office: U.S. DEPARTMENT OF COMMERCE
on of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO	Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	<b>Application Number</b>	Unknown	
(Use as many sheets as necessary)	Filing Date	Even Date Herewith	
	First Named Inventor	Ding, Jiang	
	Group Art Unit	Unknown	
	Examiner Name	Khan, Omar	
Sheet 3 of 3	Attorney Docket No: 2	279.298US2	

•

	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		GRAS, D., et al., "First experience with coronary sinus leads used for	1
		permanent Left Ventricular pacing", <u>PACE, 21,</u> NASPE Abstract No. 141,(April 1998),p. 825	
		GRAS, D., et al., "Long Term Results of Cardiac Resynchronization for Heart	
		Failure Patients: The InSync Clinical Trial", Abstracts from the 72nd Scientific	
		Sessions, Abstract No. 2714,(2000),p. I-515	
		GRAS, D., et al., "Multisite Pacing as a Supplemental Treatment of Congestive	
		Heart Failure: Preliminary Results of the Medtronic Inc. InSync Study", PACE,	
		21, (Nov. 1998),pp. 2249-2255	
		GRAS, D., et al., "Permanent Cardiac Resynchronization after Sustained	
		Clinical Improvement in Heart Failure Patients: The InSync Trial", PACE, 22,	j
		NASPE Abstract No. 803,(April 1999),p. 901	
		KASS, D. A., et al., "Improved Left Ventricular Mechanics From Acute VDD	
		Pacing in Patients With Dilated Cardiomyopathy and Ventricular Conduction	
		Delay"; <u>Circulation, 99,</u> (1999),pp. 1567-1573	
		LECLERCQ, C., et al., "Comparative Effects of Permanent Biventricular Pacing	
		in Class III and Class IV Patients", PACE, 21, NASPE Abstract No. 488,(April	
		1998),p. 911	ļ
		LECLERCQ, C., et al., "Does the Etiology of Chronic Left Ventricular	
		Dysfunction Influence the Long Term Effects of Biventricular Pacing in Patients	
		with Severe Heart Failure?", PACE, 21, NASPE Abstract No. 569,(April 1998),p.	
		932	ļ
		LECLERCQ, C., et al., "Long Term Results of Permanent Biventricular Pacing in	
		patients with Advanced Heart Failure: Comparison of Patient with Stable Sinus	
		Rhythm and Chronic Atrial Fibrillation", <u>PACE, 23,</u> NASPE Abstract No.	
		329,(April 2000),p.635	
		LECLERCQ, C., et al., "Multisite Biventricular Pacing in Advanced Heart Failure,	
		Current Status of the French Pilot Study", PACE, 22, NASPE Abstract No.	
<u> </u>		134,(April 1999),p. 733	ļ
		YU, Y., et al., "Experimental Validation of Pulse Contour Methods for Estimating	
		Stroke Volume at Pacing Onset", Proceedings of the 20th Annual International	
		Conference of the IEEE Engineering in Medicine and Biology Society, 20 (1),	
		(1998),pp. 401-404	<u> </u>

EXAMINER DATE CONSIDERED